

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A confined space monitoring system comprising:

a mammalian body motion detector sensing a confined space;

a thermocouple measuring a temperature within the confined space relative to a thermal threshold;

a video camera having a fisheye or other wide angle lens;

a controller receiving an output from said thermocouple corresponding to the temperature and a signal from said motion detector corresponding to an occupant within the confined space;

an alarm subsystem triggered by said controller communicating to a remote location that the temperature in the space is beyond the thermal threshold and an occupant is within the space subsequent to a condition precedent along with a video image generated by said video camera;

and

a reserve power unit enabling said controller to function upon loss of routine power.
2. (Original) The system of claim 1 wherein the confined space is selected from the group consisting of: a building structure, a vehicle passenger compartment, and a vehicle trunk.
3. (Original) The system of claim 1 wherein the alarm subsystem is a wireless transmitter.
4. (Original) The system of claim 3 wherein the wireless transmitter is a cellular communication transmitter.

5. (Original) The system of claim 3 wherein said alarm subsystem comprises an auditory alarm indicating that the temperature in the space exceeds a thermal threshold and the occupant is within the space.

6. (Original) The system of claim 1 wherein the condition precedent is the temperature within a vehicle confined space being above the threshold for a predetermined amount of time with the occupant therein.

7. (Previously Amended) The system of claim 5 wherein the condition precedent is failure by the occupant to reset the auditory alarm within a preselected amount of time.

8. (Previously Amended) The system of claim 1 wherein said alarm subsystem has a burglar detection mode that communicates an emergency signal to a remote location upon detecting the occupant within the space and independent of the temperature being beyond the thermal threshold, the emergency signal comprising a video image collected by said video camera.

9-10 (Canceled)

11. (Previously Amended) The system of claim 1 wherein said video camera is activated upon the temperature within the confined space exceeding the thermal threshold and the occupant is within the space.

12. (Canceled)

13. (Previously Amended) The system of claim 1 wherein said mammalian body detector comprises a type of sensor selected from the group consisting of: infrared, vibration, and carbon dioxide.

14. (Original) The system of claim 3 further comprising a wireless receiver, said receiver comprising:

a housing;

a wireless antennae for receiving an emergency signal from said alarm subsystem;

a display for providing the emergency signal in human recognizable form;

a digital memory for storing images;

a data transmission portal; and

a receiver battery power supply.

15. (Original) The system of claim 14 wherein the receiver housing has an aperture engaging a key ring.

16. (Original) The system of claim 14 wherein the housing includes a coding label selected from the group consisting of: a bar code, a one dimensional bar code, and a two dimensional bar code.

17. (Previously Amended) The system of claim 1 further comprising geographic location information communicated to the remote location by said alarm subsystem.

18. (Previously Amended) The system of claim 17 further comprising a global positioning satellite system providing the geographic location information when the confined space is within a vehicle.

19. (Currently Amended) A confined space monitoring system comprising:

- a mammalian body motion detector sensing a vehicle compartment;
- a thermocouple measuring a temperature within the vehicle compartment relative to a thermal threshold;
- a video camera having a fisheye or other wide angle lens;
- a controller receiving an output from said thermocouple corresponding to the temperature and a signal from said motion detector corresponding to an occupant within the confined space;
- a switch automatically opening a vehicle portal in response to the temperature within the vehicle compartment exceeding the thermal threshold and said detector sensing an occupant within the vehicle compartment;
- an alarm subsystem triggered by said controller to automatically communicate to a remote location that the temperature in the vehicle compartment is beyond the thermal threshold and the occupant is within the vehicle compartment; and
- a reserve power unit enabling said controller to function upon loss of routine power.

20. (Previously Amended) The system of claim 19 wherein the alarm subsystem comprises a wireless transmitter.

21. (Original) The system of claim 19 further comprising an auditory alarm indicating that said switch has been activated.

22. (Previously Amended) The system of claim 19 further comprising a video camera.

23. (Previously Amended) The system of claim 22 wherein said video camera is activated upon the temperature within the vehicle compartment exceeding the thermal threshold and the occupant is within the vehicle compartment.

24. (Previously Amended) The system of claim 23 wherein a video image is transmitted remotely by the alarm subsystem.

25. (Previously Amended) The system of claim 19 wherein the vehicle portal is selected from the group consisting of a window, sunroof, and trunk.

26. (Previously Amended) The system of claim 19 further comprising vehicle location information communicated to the remote location by said alarm subsystem.

27. (Previously Amended) The system of claim 26 further comprising a global positioning satellite system providing the geographic location information.

28. (Previously Amended) The system of claim 20 wherein the wireless transmitter transmits a signal suitable for triangulation to locate the vehicle compartment.

29. (Currently Amended) A wireless communication receiver comprising:

a housing formed as a key fob;

a wireless antennae for receiving an emergency signal from an alarm subsystem triggered by said controller communicating to a remote location that the temperature in the space is beyond the thermal threshold and an occupant is within the space subsequent to a condition precedent along with a video image generated by said video camera;

a display for providing the emergency signal in human recognizable form;

a digital memory for storing images recallable on said display;

a data transmission portal; and

a receiver battery power supply.

30. (Original) The system of claim 29 wherein the receiver housing has an aperture engaging a key ring.

31. (Original) The system of claim 29 wherein the housing includes a coding label selected from the group consisting of: a bar code, a one dimensional bar code, and a two dimensional bar code.

32. (Previously Amended) A process for releasing a trapped occupant from a confined space comprising the steps of:

disposing a mammalian body motion detector in the space;

sensing a temperature within the space;

comparing the temperature with a preselected threshold temperature; and

activating a wireless transmitter alarm subsystem in response to a condition precedent of a failure to reset an auditory alarm within a preselected amount of time.

33. (Previously Amended) The process of claim 32 further comprising the step of:

opening a portal in the space when the occupant is detected within the space and the temperature therein is beyond the threshold for the preselected amount of time.

34. (Original) The process of claim 33 wherein the wireless transmitter further communicates a location for the space.

35. (Original) The process of claim 33 wherein said wireless transmitter operates as a location triangulation beacon.

36. (Original) The process of claim 33 further comprising the step of disposing a video camera in the space and transmitting a video image by way of said wireless transmitter.